**Science 7 - Project**

**Purpose**:

1. Demonstrate knowledge of “Particle Theory”
2. Use unit vocabulary correctly.
3. Demonstrate a knowledge of how petrochemicals interact with the environment.

**Products**:

1. Research Notes – 25 %
2. Video – Particle Theory - 50 %
3. Glossary – 25 %

**Assessment:**

1. **Research** - 5pts. for each question/answer

* Complete answer (4pts. each)
* quality/clarity (1pts. each)

Demonstrate knowledge of how petrochemicals interact with the environment.

1. Define petrochemicals.
2. Where do petrochemicals come from?
3. What is the refinement process (fractional distillation)
4. How do petrochemicals get into the environment?
5. What happens to the petrochemicals, plants, and animals?
6. **Glossary** – 25%

* Complete definitions for each of the following words. (4 pts. /word)
* Quality/neatness (1 pt./ word)

1. **Video** – Particle Theory - 50% -

* Content – 5 “key ideas” for “Particle Theory of Matter” (10%)
* Quality – Clarity, voice, overall presentation (10%)
* Content – Petrochemicals and the environment (30%)

**Vocabulary**

solution saturated petroleum pollution

solvent dilute supersaturated fractional distillation

insoluble dissolving concentration solute

solubility rate of dissolving petrochemicals

**Research**

1. Define petrochemicals.

|  |  |
| --- | --- |
| **Source/website** | **Information** |
|  |  |
|  |  |

2. Where do petrochemicals come from?

|  |  |
| --- | --- |
| **Source/website** | **Information** |
|  |  |
|  |  |

3. What is the refinement process (fractional distillation)

|  |  |
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| **Source/website** | **Information** |
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4. How do petrochemicals get into the environment?

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| **Source/website** | **Information** |
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5. What happens to the petrochemicals, plants, and animals?

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| **Source/website** | **Information** |
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**Glossary**

|  |  |  |
| --- | --- | --- |
| **Term** | **Definition** | **Drawing or example (if needed)** |
| **solution** |  |  |
| **solvent** |  |  |
| **solute** |  |  |
| **insoluble** |  |  |
| **solubility** |  |  |
| **saturated** |  |  |
| **dilute** |  |  |
| **dissolving** |  |  |

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**Glossary**

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| --- | --- | --- |
| **Term** | **Definition** | **Drawing or example (if needed)** |
| **rate of dissolving** |  |  |
| **petroleum** |  |  |
| **supersaturated** |  |  |
| **concentration** |  |  |
| **petrochemicals** |  |  |
| **pollution** |  |  |
| **fractional distillation** |  |  |

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